

Bruce Sindewald
Waste Management
720 Butterfield Road
Lombard, Illinois 60148

Re: 127-12686
First Administrative Amendment to
Part 70 127-7518-00042

Dear Mr. Sindewald:

Wheeler RDF was issued a permit on July 28, 1999 for a closed solid waste disposal facility. A letter requesting a change in the number of reciprocating engines operating at the facility was received on September 8, 2000. Pursuant to the provisions of 2-7-11, the permit is hereby administratively amended as follows:

Due to an oversight, the Source Status in Condition A.1 had listed the source as minor but has been changed as follows:

Source Status: Part 70 Permit Program
~~Minor~~ **Major** Source, under PSD Rules

This status change will not affect this permit or any subsequent issued approvals due to the fact that the conditions were written for a major source.

Section (c) in Condition A.2 has been changed as follows:

(c) ~~Three (3)~~ **Two (2)** landfill gas fueled reciprocating engine/generator sets rated at 8.9 MMBtu per hour each, installed in 1996.

The Facility Description in Section D.1 along with Section D.1.6 and Section D.1.11 have been changed in the same manner as Section (c) in Condition A.2.

The Source/Facility description in the Part 70 Monthly Report has been changed as follows:

Source/Facility ~~Gas Flare System~~ **two (2) landfill gas reciprocating engines/generator sets and gas flare system**

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Daniel Harper, at (800) 451-6027, press 0 and ask for Daniel Harper or extension 2-8253, or dial (317) 232-8253.

Sincerely,
Paul Dubenetzky, Chief
Permits Branch
Office of Air Management

Attachments

DH

cc: File - Porter County
U.S. EPA, Region V
Porter County Health Department
Northwest Regional Office
Air Compliance Section Inspector - Dave Sampias
Compliance Data Section - Karen Nowak
Administrative and Development - Janet Mobley
Technical Support and Modeling - Michele Boner

Laura Niemann, Earth Tech
3121 Butterfield Road
Oak Brook, Illinois 60523

PART 70 OPERATING PERMIT OFFICE OF AIR MANAGEMENT

**Wheeler RDF
State Road 130 & Jones Road
Wheeler, IN 46393**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 and 326 IAC 2-1-3.2 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: T127-7518-00042	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management	Issuance Date: July 13, 1999
First Administrative Amendment: A 127-12686-00042	
Pages Amended: 4, 28, 30, 36, 51	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates a stationary municipal solid waste landfill (MSLWLF)

Responsible Official: Charlie Hartsell
Source Address: State Road 130 and Jones Road, Wheeler, IN 46393
Mailing Address: Two Westbrook Corporate Center, Suite 1000, Westchester, IL 60154
SIC Code: 4953
County Location: Porter
County Status: Severe nonattainment for Ozone, attainment for all other criteria pollutants
Source Status: Part 70 Permit Program
Major Source, under PSD Rules

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units:

- (a) One (1) closed solid waste disposal facility having the meaning described in 40CFR 60.751 pertaining to all contiguous land and structures, other appurtenances (including haul roads), and improvements on the land used for disposal of solid waste that opened in 1981, closed in 1993, and has a design capacity of 2,830,655 Megagrams.
- (b) One (1) flare with a capacity of 1175 standard cubic feet per minute, constructed in 1991.
- (c) Two (2) landfill gas fueled reciprocating engine/generator sets rated at 8.9 MMBtu per hour each, installed in 1996.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) Combustion source flame safety purging on startup.
- (b) The following VOC and HAP storage containers:
 - (1) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.
- (c) Application of oils, greases, lubricants, or other nonvolatile materials applied as temporary protective coatings.
- (d) The following equipment related to manufacturing activities not resulting in the emission of

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)]

- (a) One (1) closed solid waste disposal facility having the meaning described in 40CFR 60.751 pertaining to all contiguous land and structures, other appurtenances (including haul roads), and improvements on the land used for disposal of solid waste that opened in 1981, closed in 1993, and has a design capacity of 2,830,655 Megagrams.
- (b) One (1) flare with a capacity of 1175 standard cubic feet per minute, constructed in 1991.
- (c) Two (2) landfill gas fueled reciprocating engine/generator sets rated at 8.9 MMBtu per hour each, installed in 1996.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A] and to HAPs [326 IAC 14-1-1][40 CFR Part 61, Subpart A]

- (a) The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60.30, Subpart Cc and in 40 CFR Part 60, Subpart WWW (as adopted by the Indiana Air Pollution Control Board in 326 IAC 8-8).
- (b) The provisions of 40 CFR Part 61, Subpart A - General Provisions, which are incorporated as 326 IAC 14-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 61, Subpart M.

D.1.2 Non-applicability Determination

The municipal solid waste landfill is not subject to the provisions of the following 40 CFR Part 60 Subparts: Cc, D, Da, Db, Dc, E, Ea, Eb, K, Ka, Kb, O, GG, and OOO.

D.1.3 Municipal Solid Waste Landfill NSPS [326 IAC 12] [40CFR 60.752, Subpart WWW]

The municipal solid waste landfill has a design capacity greater than 2.5 million megagrams (Mg) and shall either comply with 40CFR 60.752 (b)(2) or calculate the non methane organic compound (NMOC) emission rate for the landfill using the procedures specified in 40 CFR 60.754.

D.1.4 Operational Standards for Collection and Control Systems [40CFR 60.753]

In order to comply with 40 CFR 60.752 (b)(2)(ii) the Permittee shall:

- (1) Operate the collection system such that gas is collected from each area, cell, or group of cells in the municipal solid waste landfill in which solid waste has been in place for five years if active or 2 years or more if closed or at final grade.
- (2) Operate the collection system with negative pressure at each wellhead except under the following conditions:
 - (a) Fire or increased well temperature. The Permittee shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 40CFR 60.757(f)(1).
 - (b) Use of a geomembrane or synthetic cover. The Permittee shall develop

being combusted by the engine/generator sets.

D.1.6 NOx Emissions

That the total input of landfill gas to the two (2) landfill gas fueled reciprocating engine/generator sets and flare shall be limited to a total volume flow rate of 473 million cubic feet (mmcf) of landfill gas per 365 day period, rolled on a daily basis. This fuel limitation is equivalent to a maximum NOx emission rate of 39 tons of NOx per year.

D.1.7 NESHAP for Asbestos Active Waste Disposal Sites [40 CFR 61.154]

In order to comply with 40 CFR 61.154 the Permittee must comply with the following:

- (1) allow no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or comply with (2) or (3) below.
- (2) At least once every 24-hour period, asbestos-containing waste material that has been deposited during the previous 24-hour period must:
 - (a) be covered with at least 15 centimeters (6 inches) of compacted nonasbestos containing material, or
 - (b) be covered with a resinous or petroleum-based dust suppression agent that effectively binds dust and controls wind erosion. Such an agent shall be used in the manner and frequency recommended for the particular dust by the dust suppression agent manufacturer to achieve and maintain dust control. Other equally effective dust suppression agents may be used upon prior approval by the Administrator. Any used, spent, or other waste oil is not considered a dust suppression agent.
- (3) Use an alternate emissions control method that has received prior written approval by the Administrator.
- (4) Also, unless a natural barrier deters access by the general public, warning signs and fencing must be installed or the requirements of paragraph (2)(a) above must be met.

Compliance Determination Requirements

D.1.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [40CFR 60.754(b)]

- (a) After installation of a collection and control system in compliance with 40CFR 60.755, the Permittee shall calculate the non methane organic compound (NMOC) emission rate for purposes of determining when the system can be removed using the following equation:

$$M_{\text{NMOC}} = 1.89 \times 10^{-3} Q_{\text{LFG}} C_{\text{NMOC}}$$

where,

M_{NMOC} = mass emission rate of NMOC, megagrams per year

Q_{LFG} = flow rate of landfill gas, cubic meters per minute

C_{NMOC} = NMOC concentration, parts per million by volume as hexane

- (1) The flow rate of landfill gas, Q_{LFG} , shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control device using a gas flow measuring device calibrated according to the provisions of

For any location where monitored methane concentration equals or exceeds 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Office of Air Management (OAM) for approval.

- (e) The Permittee shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.
- (4) The Permittee seeking to comply with the provisions of 40CFR 60.755(c) shall comply with the following instrumentation specifications and procedures for surface emission monitoring devices:
 - (a) The portable analyzer shall meet the instrument specifications provided in section 3 of Method 21 of appendix A of 40CFR 60, except that "methane" shall replace all references to volatile organic compound (VOC).
 - (b) The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air.
 - (c) To meet the performance evaluation requirements in section 3.1.3 of Method 21 of appendix A of 40CFR 60, the instrument evaluation procedures of section 4.4 of Method 21 of appendix A of 40CFR 60 shall be used.
 - (d) The calibration procedures provided in section 4.2 of Method 21 of appendix A of 40CFR 60 shall be followed immediately before commencing a surface monitoring survey.
- (5) The provisions of 40CFR 60.755 shall apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction, shall not exceed five (5) days for collection systems and shall not exceed one (1) hour for treatment or control devices.

Record Keeping and Reporting Requirement [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.11 Record Keeping Requirements

- (1) To document compliance with Condition D.1.6, the Permittee shall maintain records of total input of landfill gas to the two (2) landfill gas fueled reciprocating engine/generator sets and flare.

D.1.12 Calculation of Non-methane Organic Compound (NMOC) Rate [40 CFR 60.754]

Pursuant to 40CFR 60.754 the Permittee shall:

- (1) Calculate the non methane organic compound (NMOC) emission rate using either equation provided in 40 CFR 60.754(a)(1)(i) or the equation provided in 40 CFR 60.754(a)(1)(ii). Both equations may be used if the actual year-to-year solid waste acceptance rate is known, as specified in 40CFR 754(a)(1)(i), for part of the life of the landfill and the actual year-to-year solid waste acceptance rate is unknown, as specified in 40CFR 754(a)(1)(i), for part of the life of the landfill. The values to be used in both

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

Part 70 Monthly Report

Source Name: Wheeler RDF
Source Location: State Road 130 and Jones Road, Wheeler, IN 46393
Permit No.: T127-7518-00042
Source/Facility: two (2) landfill gas reciprocating engines/generator sets and gas flare system
Parameter: NOx - 39 ton/year
Limit: 473 mmcf of landfill gas, based on a 365 day period, rolled on a daily basis

Month: _____ Year: _____

Day	Usage this day (ton/day)	Usage last 36 day period	Day	Usage this day (ton/day)	Usage last 36 day period
1			17		
2			18		
3			19		
4			20		
5			21		
6			22		
7			23		
8			24		
9			25		
10			26		
11			27		
12			28		
13			29		
14			30		
15			31		
16			Total		

9 No deviation occurred in this month.

9 Deviation/s occurred in this month.

Deviation has been reported on: _____

Submitted by: _____

Title/Position: _____

Signature: _____

Date: _____

Phone: _____